1978 - 6027

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1978 to 6027

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 57 1978

Date. Nov 4 - 98

Time of day. 11.22 ~~Am~~ P.M. Commencing ebb.

Locality. In Rockaway river

Exact position. Buoy no 6. O.R.E.

.50 of mile ~~mark~~

Depth. 5 1/4 fathoms

Nature of bottom. Rocky, gravelly

Dredging instrument used. 7 foot hand hook

Direction of drift. N.N.E. ; distance. 1/2 mile

Temperature of air. 61° Fah therm. No., 7399

" of surface water, "

" at depth of fathoms. "

" at bottom. ~~1.022 " 12.2~~

Density at surface. 1.022 temp., 11.8

~~" at depth of fathoms. "~~

" at bottom. 1.022 " 12.2

Number of salinometer. 7104

Barometer reading. 30.47

State of sky. Blue

Direction of wind. N. ; force. 2

Rain. no

Direction of surface current. 0 ; force, 0

~~" of bottom " ; force,~~

Name of vessel. U.S.F.C. S. Fish Hawk

Service to which attached. Fish Commission

Name and rank of commanding officer. Lt. Commander

J. C. Drayton U.S.N.

Name and position of observer.

H. M. Mulligan

Commander

NOTES RELATING TO STATION NO. 57

1 Natic emarginata
2 Natic flandrea
1 Window pane "
Microdonia fenfrium
1 young sea urchin,
Hybrid in front plentiful
Cr.
1 Blue crab
small Cancer irroratus few
Libinia few.
E. pollicaris several
" Longicaudus
anomia - several
Few Julia Mutica
Crepidula fornicata common
" plana - common
Bryozoa plentiful
Dead shells of cyclotyrus
Fulgar, Venus, Mytilus.
Ostrea, Neverita, Crepidula
Anomia, A. levis, Littorina littorea
Few dead Natic eggs
Few tunicates
Leptinotus, Panopeus
Balanus, Hydroctinia
Pectinaria

Trawl was hauled in from 3 1/2 to 9 1/2 fathoms

613

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 5 — 1979

Date. Nov 4 98

Time of day. 11.50 am; of tide, 1/2 hour ebb.

Locality. In Sekonnet river

Exact position. Buoy no 8 300 yards N x N of 4 fath

Depth.

Nature of bottom. Same as below

Dredging instrument used. 7 foot beam Trawl

Direction of drift, N.N.E.; distance, 5/8 mile

Temperature of air, 61° therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.022 temp., 11.5°

" at depth of fathoms, "

" at bottom. 1.022 " 12°C

Number of salinometer, 7104

Barometer reading. 30.45

State of sky. Blue

Direction of wind, S.; force, 2

Rain. No

Direction of surface current, N; force, 1 knot

" of bottom " ; force,

Name of vessel. U.S.F.C. "Fish Hawk"

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Dunlap U.S.N.

Name and position of observer, J. Wheldon Thomas Asst Navy

NOTES RELATING TO STATION NO. 52

Practically the same as 51
with addition of 2 large ones
1 egg string of Sybotypus
Leb. hydroid.
2 large 7 in Stars - Forbes -
Crangon
Mulinia
Eurosalpinx.
Panopeus

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 53 1980

Date, Nov. 6 1898

Time of day, 7.30 pm; of tide, 3 hours ebb

Locality, Narragansett Bay

Exact position, Dutch Isld Light N E, x N, 7½ 4 miles

Depth, 7 fathoms

Nature of bottom, mussel bed

Dredging instrument used, 7 foot beam trawl

Direction of drift, S. 3/4 E.; distance, 5/8 mile

Temperature of air, 56° Fah therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021+ temp., 13.7° C

~~" at depth of fathoms, "~~

" at bottom, 1.0[illegible]+ " 13.8° C

Number of salinometer, 7104

Barometer reading, 30.40

State of sky, Clear

Direction of wind, S. W.; force, 3

Rain, No

Direction of surface current, S. x W, force, 1 knot

~~" of bottom " force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. H. Dauntless, U.S.N.

Name and position of observer, J. H. Millegan Chemist U.S.N.

NOTES RELATING TO STATION NO. 53

About 10 bushel of mussels.
large Cancer irroratus. bucketful
Mitchi flounder few
4 Hake squirrel
Skate Eunacca. few,
1 Windowpane
1 P. Carolina
1 arbacia (urchin)
a bushel very large Stars 8 in. across
The usual fauna of the mussel bed
Leptosynapta, Pagopeneis.
Crimnothera, a few dead shells
Callista convexa, 1 blue crab.
Bucketful cancer irroratus, mostly males
Plais very broad, full & fat
Sycotypus

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 54 — 1981

Date. Nov. 4 98

Time of day. 2.50 : of tide. 3½ hrs flood

Locality. Narragansett Bay

Exact position. Dutch Island Ch.

N × E ¾ E. 1.87 miles near

Depth. 7¼ fathoms.

Nature of bottom. Rocky.

Dredging instrument used. 7 feet beam trawl

Direction of drift. S. 3/4 W. distance. ½ mile

Temperature of air. 56° Fahr. therm. No.,

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface. 1.021 + temp., 12.8°

~~" at depth of fathoms, "~~

" at bottom. 1.022 " 13.7°

Number of salinometer. 7104

Barometer reading. 30.40

State of sky. Blue - hazy

Direction of wind. S. W. : force, 3

Rain. No

Direction of surface current. S & W. : force, Weak

~~" of bottom " : force,~~

Name of vessel. U.S. F.C.S. Fish Hawk

Service to which attached. Fish Commission

Name and rank of commanding officer. Lt. Commdr. R. H. Tarbell, U.S.N.

Name and position of observer. J. W. Milligan Physicist, U.S.N.

NOTES RELATING TO STATION NO. 54

1 Sculpin
1 Skate Raja
Several Squid
Few small flounders.
1 bushel mussels & shells.
Quantity of Kelp.
Lepidonotus
Capsicola plana & fornicata
~~Cal~~
1 Young sea robin
Callista convexa. dead shell
1 blue crab.
1 Dog cannon innoratus.
1 Young " borealis.
1 Edotia innoratus
10 Large slats 2 long
1 purple " (?)
1 fresh sea urchin
Few. Gymnastions. Cumac
Young 1 Buccinum
& Longicaudus
Gammarus
Young Ilyanassa squamosa
Pachopsis
Bryozoa. Obelia
Lithodomia, hydroid in same
Nudibranch (Ap.?) Gammarus.
Spirorbis, few small pieces ammars &
cum

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 55 — 1961

Date. Nov 4-98

Time of day. 3.15 pm : of tide. 4 hrs flood

Locality. Nassau Sound Bay

Exact position. Benders Point light

D. E x E 1/4 E 7.67 of mile mag

Depth. 9 1/2 fathoms

Nature of bottom. Sandy

Dredging instrument used. 7 foot beam Trawl

Direction of drift. N.W. distance. 3/4 mile

Temperature of air. 55° Fahr therm. No., 7397

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.023 temp., 13.6°

~~" at depth of fathoms.~~

" at bottom. 1.023 " 14°

Number of salinometer. 7104

Barometer reading. 30.40

State of sky. Blue hazy

Direction of wind. N.W. : force, 3

Rain. No —

Direction of surface current. N.W. : force, 1 Knot

~~" of bottom " : force,~~

Name of vessel. U. S. F. C. Fish Hawk

Service to which attached. Fish Commission

Name and rank of commanding officer. Lt. Commdr

R. Dunwoodie Ingersoll

Name and position of observer. J. W. Gilligan

Pharmacist U.S.N.

NOTES RELATING TO STATION NO. 55

Several [illegible] squirrel
3 Stakes Echinacea – 1 [illegible]
a few young [illegible]
[illegible]
a young red [illegible]
[illegible]
1 [illegible]
[illegible]
[illegible]
1 [illegible] Rea [illegible]
Pelia [illegible]
E. Purpurea
Hypericum [illegible]
Echinacea [illegible]
[illegible]
1 [illegible]
Few [illegible]
Stakes [illegible]
Ranunculus [illegible]
1 [illegible]
E. [illegible]
1 [illegible]
E. Angustifolia
E. [illegible]
Indig [illegible]
1 [illegible]

Modified Prairie

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 56 - 1983

Date. Nov. 4 1895

Time of day. 3.45 : of tide. nearly

Locality. Narragansett Bay

Exact position. South Tail light

Depth. 14 3/4 fathoms

Nature of bottom. Rocky

Dredging instrument used. Rock Dredge

Direction of drift. N. W. ; distance. 3/4 knots

Temperature of air. 53° therm. No. 7397

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.0 temp. 13°

" at depth of fathoms. "

" at bottom. 1.0 " 13.3°

Number of salinometer. 30 7104

Barometer reading.

State of sky. Clear

Direction of wind. N. W. : force. 3

Rain.

Direction of surface current. N. W. : force. 3/4 knots

" of bottom " : force.

Name of vessel. U. S. F. C. Steamer Fish Hawk

Service to which attached.

Name and rank of commanding officer. Lt. Commander Tanner

Name and position of observer. Mitchell Lee Hydrographer U. S. N.

NOTES RELATING TO STATION NO. 56

1 [illegible] (?)
[illegible]
16 [illegible]
16 [illegible]
2-4 [illegible]
[illegible]
[illegible]
[illegible]
Few dead shell, [illegible]
[illegible]
[illegible]
3 [illegible] 11½" 2'-6"
About 50 [illegible] 1½" 2'-3"
2 [illegible]
[illegible]
[illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 57 — 1954

Date, Nov 4 — 1898

Time of day. 4 30 pm : of tide.

Locality, Narragansett Bay

Exact position. Castle [illegible]

E 1/2 N 87 miles away

Depth. 17 1/2 fathoms

Nature of bottom, [illegible]

Dredging instrument used. [illegible]

Direction of drift. [illegible] : distance. 3/4 miles

Temperature of air. 51 — therm. No. 7397

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface. 1.0214 temp., 12.5°

" ~~at depth of fathoms,~~ "

" at bottom, 1.023 " 13°

Number of salinometer, 7125

Barometer reading. [illegible]

State of sky. Blue hazy

Direction of wind, [illegible] : force. 3

Rain, No

Direction of surface current. 0 : force, 0

" of bottom " : force.

Name of vessel, [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer, [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 57

3 or 4 [illegible]

[illegible]

[illegible]

[

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 58 1525

Date, Nov. 9th 1898

Time of day, 11.10 am ; of tide. [illegible]

Locality, Mt Hope Bay

Exact position, Bible Point N.

N. by E. 2.25 mile.

Depth, 4½ fathoms

Nature of bottom, Muddy

Dredging instrument used.

Direction of drift. N x W ; distance. [illegible]

Temperature of air, 58° [illegible] therm. No. 73,7

" of surface water, "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.019 temp., 11.2°

~~" at depth of fathoms.~~ "

" at bottom. 1.0[illegible] Surface 1.019 Bottom 1.02 " 12.7°

Number of salinometer.

Barometer reading. 30 – 28

State of sky. Partly cloudy – hazy

Direction of wind, Calm ; force. 0

Rain.

Direction of surface current. ; force.

~~" of bottom. " ; force.~~

Name of vessel, U.S. [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer. Lt. Cooper

[illegible]

Name and position of observer.

[illegible]

NOTES RELATING TO STATION NO. 58

[illegible]
Eufrosyne [illegible]
Cidotenia [illegible]
Euphorbia, [illegible]
[illegible]
[illegible]
Pangaea
Libinia
[illegible]
Canna [illegible]
Petrichloris [illegible]
Muhlenbergia —
Mulula
Calliotis [illegible]
Fraxinus
[illegible]
Begonia [illegible]
Mimulus [illegible]
Sorbus
Cucurbita
Hymenoclea
[illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 59

Date. Nov 9th 1878

Time of day, 11.35 : of tide. 1 hr. flood

Locality. Mt Hope Bay

Exact position. [illegible] 1.75 miles away

Depth, 4

Nature of bottom, Muddy with Gravel

Dredging instrument used. Tow Net

Direction of drift, [illegible] : distance. 1/2 mile

Temperature of air, 60° Fah. therm. No. 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.019 temp. 115

~~" at depth of fathoms,~~ "

" at bottom. 1.024 Surface 1.019 Bottom 1.024 temp. 115

Number of salinometer,

Barometer reading. 30.24

State of sky. Blue Cloudy

Direction of wind, S. W ; force. 1

Rain, No

Direction of surface current, : force,

" of bottom " : force.

Name of vessel. U. S. F. C. Str. Lark

Service to which attached, U. S. Commission

Name and rank of commanding officer, Lt. Crowe

R. E. Crowninshield, Ensign

Name and position of observer. J. T. Wheeler

Ensign, U.S.N.

NOTES RELATING TO STATION NO. 57

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 60 — 1957

Date. Nov. 9th

Time of day. 11.55 : of tide. [illegible]

Locality. [illegible]

Exact position. [illegible]

N.x.E. .75 mile away.

Depth. 6½ fathoms

Nature of bottom, Mussel bed

Dredging instrument used, [illegible]

Direction of drift. [illegible] : distance. 5½ miles

Temperature of air, 62° therm. No. 7397

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface. 1.019 temp., 17°

~~" at depth of fathoms,~~

" at bottom, 1.024+ " 12°

Number of salinometer, [illegible]

Barometer reading. 30.23

State of sky. [illegible]

Direction of wind, [illegible] : force, [illegible]

Rain. No

Direction of surface current, : force,

" of bottom " : force.

Name of vessel, U. S. F. C. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 60

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 64

Date. Nov. 9th 1888

Time of day. 25 hm : of tide. 3/4 h. flood

Locality.

Exact position.

Depth. 14 3/4

Nature of bottom.

Dredging instrument used. Tanner

Direction of drift. ; distance.

Temperature of air. 60 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.0200 temp., 19.5

" at depth of fathoms, "

" at bottom. 12

Number of salinometer.

Barometer reading. 30.20

State of sky. Cloudy

Direction of wind. N.W. ; force,

Rain. not

Direction of surface current. ; force,

" of bottom " ; force,

Name of vessel. U.S.F.C. Schooner

Service to which attached. Fish Commission

Name and rank of commanding officer,

Name and position of observer.

NOTES RELATING TO STATION NO. X

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 61

Date. Nov 9

Time of day. 7 pm : of tide. 4 hr of flood

Locality. Mt Hope Bay

Exact position. [illegible]

N.E. x N. .50 [illegible]

Depth. 1 fathom

Nature of bottom. Sand

Dredging instrument used. [illegible]

Direction of drift. S.W. x W ; distance. 1/2 mile

Temperature of air. 62 therm. No. 7377

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.021 temp. 11.9

" at depth of fathoms, "

" at bottom. 1.021 " 13.6

Number of salinometer. [illegible]

Barometer reading. [illegible]

State of sky. Clear Hue

Direction of wind. N.E. ; force. [illegible]

Rain. None

Direction of surface current. : force.

" of bottom " : force.

Name of vessel. U.S.F.C. Schooner [illegible]

Service to which attached. Fish Commission

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 6

Few Jamaica
Epidendrum
Fritin
Machis
Neighbilla
Cattleya
Few Lycaenidae
Dutch
Lamiaceae

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 62 — 1908

Date. Nov. 9.

Time of day. 2 20 : of tide. 4 h. 1 flood

Locality. Narragansett Bay

Exact position. Off Chris Point.

N. 41.3/4 W. .25 mile away.

Depth. 12 ft.

Nature of bottom. Clay

Dredging instrument used, Tow net

Direction of drift. N. W. : distance. 1/2 mile

Temperature of air. 60 — therm. No. 7349

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.020 temp., 12

" at depth of fathoms, " .

" at bottom. 1.021+ " 14.1

Number of salinometer, 7104

Barometer reading.

State of sky. Clear

Direction of wind. : force,

Rain, No

Direction of surface current, : force,

" of bottom " : force.

Name of vessel. U. S. F. C. S. Fish Hawk

Service to which attached. Fish Commission

Name and rank of commanding officer, Lt. Com. R. E. Davenport Comdr.

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 6

1928 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 63 — 991

Date. Nov 17 1896

Time of day. : of tide.

Locality. [illegible] East [illegible]

Exact position. [illegible]

W. x N. ¼ N., 1.57 [illegible]

Depth.

Nature of bottom. [illegible]

Dredging instrument used. [illegible]

Direction of drift. W x S : distance. [illegible]

Temperature of air. 38 [illegible] therm. No. [illegible]

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. [illegible] temp., 11.4

~~" at depth of fathoms.~~

" at bottom. " [illegible]

Number of salinometer.

Barometer reading. 30.25

State of sky. [illegible]

Direction of wind. [illegible] : force.

Rain. No

Direction of surface current. [illegible] : force.

" of bottom " : force.

Name of vessel. U. S. F. C. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 6

[illegible]

of [illegible] Commercial [illegible]

[illegible]

[illegible]

[illegible]

Very Rocky bottom
Ans + tow

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 64 — 1964

Date, Nov. 12.

Time of day, 10.35 ; of tide, Flood

Locality, ~~Potomac~~ Near Schuyler Edge

Exact position, Sidemarks bearing N.E. & E. 1.25 miles away.

Depth, 11 fathoms

Nature of bottom, Rocky

Dredging instrument used, [illegible]

Direction of drift, S.W. & W. ; distance, 3 ft. [illegible]

Temperature of air, 38° Fahr. therm. No., [illegible]

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 12° C.

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 12° C.

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Clear

Direction of wind, [illegible] ; force, [illegible]

Rain, No

Direction of surface current, No perceptible

~~" of bottom~~ " " force,

Name of vessel, U.S.F.C. Fish Hawk

Service to which attached, Coast Survey

Name and rank of commanding officer, [illegible]

R. G. Sampson U.S.N.

Name and position of observer,

[illegible]

NOTES RELATING TO STATION NO. 64

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 65 - 1023

Date. Nov. 17 1895

Time of day. 11 ; of tide. 5 h. 0 m. ebb.

Locality. Mouth of Schuylkill River

Exact position. Yeatonmouth ~~Schuylkill River~~ N. X E, 3/4 E. .75 of mile mag.

Depth, 9 fathoms

Nature of bottom, Rocky Sandy

Dredging instrument used, Dredge

Direction of drift, W x N. & N; distance. 1/2 mile

Temperature of air. 38° Fah. therm. No. 7397

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface. 1.023 temp. 11.3°

" at depth of fathoms, "

" at bottom. 1.023 " 17.1°

Number of salinometer. 7100

Barometer reading. 30.23

State of sky. Cloudy

Direction of wind, N. W. ; force. 2

Rain. No

Direction of surface current, S x W. ; force, 1

" of bottom " ; force.

Name of vessel, U. S. F. C. S. "Fish Hawk"

Service to which attached, Fish Commission

Name and rank of commanding officer. Lt. Commdr. Tanner

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 66 — 1096

Date, Nov 14 1896

Time of day. 11 20 : of tide. 5½ h of ebb

Locality. North Lawrence River

Exact position, Sextant line depth

E ½ N. 75° true mag.

Depth, 11½ fathoms

Nature of bottom, Rock

Dredging instrument used,

Direction of drift. N & N ; distance, 3/8 mile

Temperature of air, 38° Fahr. therm. No. 7382

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 11.20 C

Number of salinometer, 7100

Barometer reading, 30.72

State of sky, Clear

Direction of wind, N. W ; force, 3

Rain, no

Direction of surface current, O x W ; force, 1/8 knot

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. Commission

Name and rank of commanding officer, [illegible]

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO. 66

[illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 67 — 1925

Date, Nov 14 — 1891

Time of day, 11 : of tide, [illegible]

Locality, Mouth of Cockermouth River

Exact position, Cockermouth Pt [illegible]

D. 1/2 E — .75 mile mag.

Depth, 7 fathoms

Nature of bottom, [illegible]

Dredging instrument used, [illegible]

Direction of drift, N N W ; distance, 3/4 mile

Temperature of air, 39° Fahr therm. No., 1391

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 13.5°

~~" at depth of fathoms,~~ "

" at bottom, 1.0234 " 11

Number of salinometer, [illegible]

Barometer reading, 30.2[illegible]

State of sky, Blue

Direction of wind, [illegible] : force, 3

Rain, [illegible]

Direction of surface current, [illegible] ; force,

" of bottom " ; force,

Name of vessel, [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer, [illegible]

R. E. Davis Lt. Comdr.

Name and position of observer,

[illegible] Wallingford

Coxswain. USNR

NOTES RELATING TO STATION NO. 67

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1996

Date, Nov. 14 1896

Time of day, ; of tide, Ist of flood

Locality, East side of entrance Kennebunk River

Exact position, Centerline of Light

D. 3/4 N Half Mile mag.

Depth,

Nature of bottom, Rocky

Dredging instrument used, Hand from Boat

Direction of drift, S. E 1/4 E ; distance, 1/2 mile

Temperature of air, 40° Fahr therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 1024

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, No force to table ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Commdr. J. E. Pillsbury, U.S.N.

Name and position of observer, D. Mulligan Pilot Boat Maine

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 69 — 997

Date,

Time of day, 1.30 ; of tide. (Ebb of flood)

Locality.

Exact position, 2.75 miles N.

Depth, 5 fathoms

Nature of bottom. Hard

Dredging instrument used.

Direction of drift: ; surface. 1/2 mile

Temperature of air. ° therm. No.

" of surface water, "

" at depth of fathoms. "

" at bottom. "

Density at surface. temp.,

" ~~at depth of~~ fathoms, "

" at bottom, 1.0243 " 11.°

Number of salinometer,

Barometer reading. 30.20

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, N. ; force. 1/3

" of bottom " ; force.

Name of vessel,

Service to which attached, Fish Commission

Name and rank of commanding officer.

Name and position of observer,

NOTES RELATING TO STATION NO. 69

Sonnia

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 70 — 1998

Date. Nov. 11 1898

Time of day. 1 30 : of tide. 12, 52 m [illegible]

Locality. [illegible]

Exact position. Vineyard N. Light

S. x E. 1/4 E 2,37 miles way

Depth. 6 fathoms

Nature of bottom. [illegible]

Dredging instrument used. Dredge

Direction of drift. S ; distance. 1/2 mile

Temperature of air. 44° Fahr therm. No. 7397

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.023 temp., 10 [illegible]

~~" at depth of fathoms.~~ "

" at bottom. [illegible] " [illegible]

Number of salinometer. 7104

Barometer reading. 30.25

State of sky. [illegible]

Direction of wind. [illegible] : force.

Rain.

Direction of surface current. W : force, 1/2 [illegible]

~~" of bottom~~ : force.

Name of vessel. U.S.F.C. Fish Hawk

Service to which attached. Fish Commission

Name and rank of commanding officer. [illegible]

Name and position of observer. J. H. Merryman

Assistant [illegible]

NOTES RELATING TO STATION NO. 70

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1999

Date.

Time of day. : of tide,

Locality.

Exact position.

R. E. 1/2 2 miles

Depth.

Nature of bottom.

Dredging instrument used.

Direction of drift. O. M. ; distance. 1/4 mile

Temperature of air. therm. No.,

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.0225 temp., 11.7°

" at depth of fathoms. "

" at bottom. " "

Number of salinometer.

Barometer reading. 30.19

State of sky.

Direction of wind. ; force,

Rain.

Direction of surface current. N. E. : force.

" of bottom " : force,

Name of vessel.

Service to which attached.

Name and rank of commanding officer,

Name and position of observer.

NOTES RELATING TO STATION NO. 7

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. [illegible] — 2000 [illegible]

Date. [illegible]

Time of day. [illegible] : of tide. [illegible] flood

Locality. [illegible]

Exact position. [illegible]

Depth. [illegible] fathoms.

Nature of bottom. [illegible]

Dredging instrument used. [illegible]

Direction of drift. [illegible] : distance. [illegible]

Temperature of air. [illegible] therm. No. [illegible]

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. [illegible] temp., [illegible]

" at depth of fathoms. "

" at bottom. [illegible] " [illegible]

Number of salinometer. [illegible]

Barometer reading. [illegible]

State of sky. [illegible]

Direction of wind. [illegible] : force.

Rain. [illegible]

Direction of surface current. [illegible] : force, [illegible]

" of bottom " : force.

Name of vessel. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO.

Cyclorandia

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 73 – 2001 $\frac{11.37}{7.68}$

Date. [illegible]

Time of day. [illegible] : of tide. [illegible]

Locality. Off Sathum [illegible]

Exact position. Dekonwitz Light S.E. – 3.75 miles away

Depth. [illegible] ms

Nature of bottom. [illegible]

Dredging instrument used. [illegible] scow [illegible]

Direction of drift. N. W. & W.; distance. [illegible] mile

Temperature of air. 45 Faho therm. No., [illegible]

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface. [illegible] temp., [illegible]

" at depth of fathoms. "

" at bottom. [illegible] " 11.1°C

Number of salinometer, [illegible]

Barometer reading. [illegible]

State of sky. [illegible]

Direction of wind. [illegible] : force, [illegible]

Rain. [illegible]

Direction of surface current. No current

" of bottom " ; force,

Name of vessel. U. S. F. C. S. Fish Hawk

Service to which attached. Fish Commission

Name and rank of commanding officer. [illegible]

R. M. Dexter [illegible]

Name and position of observer. [illegible]

[illegible]
Pharmacist [illegible]

NOTES RELATING TO STATION NO. [illegible]

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. [illegible] – 2002 [illegible]

Date, [illegible]

Time of day, [illegible] ; of tide, [illegible]

Locality, [illegible]

Exact position, [illegible]

Depth, [illegible]

Nature of bottom, [illegible]

Dredging instrument used, [illegible]

Direction of drift, [illegible] ; distance, [illegible]

Temperature of air, [illegible] therm. No., [illegible]

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, [illegible] temp. [illegible]

" at depth of fathoms, "

" at bottom, [illegible] " [illegible]

Number of salinometer.

Barometer reading.

State of sky.

Direction of wind, [illegible] : force.

Rain.

Direction of surface current, [illegible] : force [illegible]

" of bottom [illegible] : force.

Name of vessel, [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer, [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 7

P. Carolina

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7 – 2003 $\frac{3.37}{3.45}$

Date. [illegible]

Time of day. 3 : of tide. [illegible]

Locality. [illegible]

Exact position. [illegible]

Depth. [illegible]

Nature of bottom. [illegible]

Dredging instrument used. [illegible]

Direction of drift. [illegible] distance. 1/2 mile

Temperature of air. [illegible] Fahr. therm. No. [illegible]

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. [illegible] temp. [illegible]

~~" at depth of fathoms.~~ "

" at bottom. [illegible] " [illegible]

Number of salinometer. [illegible]

Barometer reading. 30.2[illegible]

State of sky. [illegible]

Direction of wind. [illegible] ; force. 3

Rain. [illegible]

Direction of surface current. No current ; force.

~~" of bottom " ; force.~~

Name of vessel. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 75

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. [illegible]

Date. [illegible]

Time of day, 10.30 [illegible] : of tide. [illegible]

Locality, [illegible] Harbor

Exact position. [illegible]

N 1/2 E 1 mile [illegible]

Depth. 7 ft 10 [illegible]

Nature of bottom, [illegible]

Dredging instrument used, [illegible]

Direction of drift. [illegible] : distance. [illegible]

Temperature of air. [illegible] Ther. [illegible] therm. No. [illegible]

" of surface water. [illegible]

" at depth of [illegible] fathoms. "

" at bottom. [illegible] " [illegible]

Density at surface. [illegible] temp., [illegible]

" at depth of fathoms. "

" at bottom. [illegible] " [illegible]

Number of salinometer,

Barometer reading. [illegible]

State of sky, Overcast, haze —

Direction of wind, [illegible] : force. [illegible]

Rain, No

Direction of surface current, [illegible] : force, [illegible]

" of bottom " : force.

Name of vessel. [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 76

[illegible] [illegible]

2 Sonacia

3 Hake - squirrel

Lucinomus

Pandora [illegible]

Capsella plana

6 Amelia [illegible]

1 Rinoon [illegible]

2 Half grown [illegible]

Pelia mutica few

2 Small [illegible]

1 " [illegible]

Mendicula

Few Red shells of [illegible]

" [illegible]

Petricola

Crucibulum [illegible]

1 Small [illegible]

53 [illegible] large 3[illegible]

1 Pandora

Tellina

Crangon [illegible]

Oyster [illegible]

[illegible] in Tide [illegible]

1 [illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 77 — 2005

Date. 8

Time of day. ; of tide.

Locality.

Exact position.

E x R.

Depth. 9½ fathoms

Nature of bottom. muddy

Dredging instrument used.

Direction of drift. ; distance.

Temperature of air. therm. No. 7397

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.0222 temp. 12.8

" ~~at depth of fathoms.~~

" at bottom. 1.0222 " 11.0

Number of salinometer. 9104

Barometer reading.

State of sky. Clear

Direction of wind. ; force. Light

Rain. No

Direction of surface current. D. O. W. ; force. 1 Knot

" of bottom " ; force.

Name of vessel. U. S.

Service to which attached.

Name and rank of commanding officer.

Name and position of observer.

NOTES RELATING TO STATION NO. 77

[illegible]

[illegible]

[illegible]

1 Blue crab

1 [illegible]

[illegible]

[illegible] [illegible] with eggs

Codfish

[illegible] bass

[illegible]

[illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 78 — 2006 — 11,23 / 7.6 / 4.9

Date, March 12-98

Time of day, 11.23 ; of tide, [illegible]

Locality, New Bedford Harbor

Exact position, Off S.E. Harbor Light S 1/4 E 87 yards neg.

Depth, 7½ fathoms

Nature of bottom, Rocky

Dredging instrument used, [illegible]

Direction of drift, S. ; distance, ½ knot

Temperature of air, 57° Fah., therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0216 temp., 10.6°

~~" at depth of fathoms,~~ "

" at bottom, 1.0222 " 10.8°

Number of salinometer, 7104

Barometer reading, 29.72

State of sky, Overcast

Direction of wind, S.W. ; force, Light

Rain, [illegible]

Direction of surface current, S.W. ; force, Heavy

~~" of bottom ; force,~~

Name of vessel, U.S.F.C. [illegible]

Service to which attached, Fish Commission

Name and rank of commanding officer, [illegible]

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO. 78

6007

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 79 : 2007

Date, Sept 12 - 92

Time of day, 11.05 ; of tide, 2 3/4 h of ebb.

Locality, Massachusetts Bay.

Exact position, Stat. Wm. Lefavor

P. D. M. 1.75 mile mag

Depth, 6 fathoms

Nature of bottom, [illegible]

Dredging instrument used,

Direction of drift, S. S. W. ; distance, 3/4 mile

Temperature of air, 51° Fahr therm. No. 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0200 temp., 10.5°

~~" at depth of fathoms,~~

" at bottom, 1.0200 " 10.5°

Number of salinometer, 7100

Barometer reading, 29.67

State of sky, Overcast

Direction of wind, S. W. ; force, 1

Rain, No

Direction of surface current, S. S. W. ; force, 1/2 knot

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, [illegible]

[illegible]

Name and position of observer, [illegible]

Chemist [illegible]

NOTES RELATING TO STATION NO. 79

2 oes
1928
80

643

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 80 — 2 oes

Date. Nov. 16, 1928.

Time of day. 1 p.m. : of tide, Low water

Locality. Narragansett Bay

Exact position. Conanicut N. of Light

~~Off~~ N E x E ½ E 2 x 25 miles

Depth. 5 fathoms

Nature of bottom. Rocky

Dredging instrument used. 7 foot dredge frame

Direction of drift. S x W. : distance. 1/2 mile

Temperature of air. 52° F. therm. No., 7397

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.021 temp., 10.5°

~~" at depth of fathoms.~~ "

" at bottom. 1.021+ " 10.7°

Number of salinometer, 7100

Barometer reading. 29.64

State of sky. Overcast

Direction of wind, W x S. : force, 11

Rain. No.

Direction of surface current, 0 : force, 0

~~" of bottom " : force,~~

Name of vessel, U. S. Lighthouse Service

Service to which attached, [illegible]

Name and rank of commanding officer, Lt. Commander

R. G. [illegible]

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO. 8 2

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 81 — 2009

Date. [illegible]

Time of day. 1.35 pm : of tide. [illegible]

Locality. Nantucket Sound

Exact position. Continue N. [illegible]

[illegible] E × N 1/2 N [redacted] 1 1/2 miles [illegible]

Depth. 2 fathoms

Nature of bottom. Sand

Dredging instrument used. [illegible]

Direction of drift. [illegible] : distance. 3/8 mile

Temperature of air. 50° F. therm. No. 7297

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.021 temp. 10.2

~~" at depth of fathoms,~~

" at bottom. 1.021+ " 10.7

Number of salinometer.

Barometer reading. [illegible]

State of sky. [illegible]

Direction of wind. N.W. : force. 2

Rain. [illegible]

Direction of surface current. 0 : force, 0

~~" of bottom " : force,~~

Name of vessel. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 81

2010

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 82 2010

Date, Nov. 4-96

Time of day, 7.0 P.M. ; of tide. 1h. 0 flood

Locality. Massachusetts Bay

Exact position. Gnomon N. for Light S.E. for S. 1.25 miles may.

Depth. 39 fathoms

Nature of bottom. Sand

Dredging instrument used. Peterson

Direction of drift, N x E. ; distance. 1/2 mile

Temperature of air. 5 degrees Fahr. therm. No., 7397

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.0220 temp., 10.0°

" at depth of fathoms. "

" at bottom. 1.0221 " 18.1°

Number of salinometer. 2102

Barometer reading. 29.64

State of sky. Overcast

Direction of wind. ; force.

Rain. No

Direction of surface current. N.E. ; force. 1/8 knot

" " of bottom " ; force.

Name of vessel. U.S.F.C. "Fish Hawk"

Service to which attached.

Name and rank of commanding officer, Lt. Commander [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. [illegible]

[illegible]

[illegible]

[

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 83 — ~~2011~~

Date. Nov 12 - 98

Time of day. [illegible] pm ; of tide, 1h 30m after

Locality. Nantucket Sound

Exact position. Commencing N. of Lighthouse S. 3/4 E. 1.50 miles away

Depth. [illegible] fathoms

Nature of bottom. [illegible]

Dredging instrument used. [illegible]

Direction of drift, N. N. W. 4 M. ; distance. 1/2 mile

Temperature of air. 50 therm. No., 7597

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.0204 temp., 10.1°

" at depth of fathoms, "

" at bottom. 1.0204 "

Number of salinometer.

Barometer reading. 29.94

State of sky. Overcast

Direction of wind. ? ; force,

Rain, No

Direction of surface current, N. E ; force, 1/2

" of bottom ; force,

Name of vessel, U. S. F. C. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr. R. L. Phelps, Jun. Navy

Name and position of observer, [illegible] Pharmacist, U.S. Navy

NOTES RELATING TO STATION NO. 83

about 175

[illegible]

Lyeton and Alderman, [illegible]

[illegible]

Cremation [illegible] shells

Exposure [illegible]

[illegible] shell [illegible]

Cremation [illegible]

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 84 — 2012

Date, Nov. 14 98

Time of day, [illegible] ; of tide, 1 3 4 h flood

Locality, Narragansett Bay

Exact position, Cabanis Pt N Hugh

P 8 for Ear. 2.5 Mile mag.

Depth, [illegible] fathoms

Nature of bottom, Muddy [illegible]

Dredging instrument used, [illegible]

Direction of drift, [illegible] ; distance, [illegible] miles

Temperature of air, 52 [illegible] ; therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0[illegible] ; temp., [illegible]

" ~~at depth of~~ fathoms, "

" at bottom, 1.021 " 10.[illegible]

Number of salinometer, 7114

Barometer reading, [illegible]

State of sky, [illegible]

Direction of wind, [illegible] ; force, [illegible]

Rain, No

Direction of surface current, N.E ; force, 1/2

" of bottom " ; force,

Name of vessel, [illegible]

Service to which attached,

Name and rank of commanding officer, [illegible]

Name and position of observer,

NOTES RELATING TO STATION NO. 14

[illegible]

1 [illegible]

[illegible]

1 [illegible]

[illegible]

[illegible]

[illegible]

About 100 [illegible]

[illegible]

[illegible]

Cretaceous

2 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Badu

1 Victoria [illegible]

1 Aircraft

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No., [illegible] — 2013

Date, [illegible]

Time of day, [illegible] : of tide, [illegible]

Locality, Narragansett Bay

Exact position, Kramer's [illegible]

N. N. E. 2.50 miles [illegible]

Depth, [illegible]

Nature of bottom.

Dredging instrument used.

Direction of drift, N. N. 1/2 W. : distance, 3/4 [illegible]

Temperature of air. [illegible] therm. No., [illegible]

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. [illegible] temp., 10.°

" at depth of fathoms. "

" at bottom. [illegible] " [illegible]

Number of salinometer, [illegible]

Barometer reading. [illegible]

State of sky. [illegible]

Direction of wind, [illegible] : force, 3

Rain. [illegible]

Direction of surface current. [illegible] : force, 1/2

" of bottom " : force.

Name of vessel. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 86 — 2014

Date. Nov. 12 28

Time of day. 4 pm : of tide. 3 hr. flood

Locality, Narragansett Bay

Exact position, Rose Island Light

A x E. 1.75 miles way

Depth. 17½ feet

Nature of bottom, Mud

Dredging instrument used, Thurston

Direction of drift, N.W. ; distance. ½ mile

Temperature of air. 48° Fahr. therm. No.

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.022 temp., 11° C

~~" at depth of fathoms.~~ "

" at bottom. 1.022 " 13.7°

Number of salinometer.

Barometer reading. 29.5

State of sky, Overcast

Direction of wind, N.W. ; force. 4

Rain, No

Direction of surface current, N.E. : force. ½

~~" of bottom~~ ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer.

Name and position of observer,

NOTES RELATING TO STATION NO. 86

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. [illegible] — 2015

Date, Nov. 14 - 18

Time of day, [illegible] : of tide. [illegible]

Locality, [illegible]

Exact position, Rice Point Light

O. x E. 1/2 [illegible] - 75 [illegible] miles bay

Depth, 24 fathoms

Nature of bottom, Mud

Dredging instrument used, [illegible]

Direction of drift, O. x E. : distance, 1/2 mile

Temperature of air, [illegible] (thermn. No. [illegible]

" of surface water, " [illegible]

" at depth of fathoms, " [illegible]

" at bottom, " [illegible]

Density at surface, [illegible] temp., 11°

" at depth of fathoms, " [illegible]

" at bottom, [illegible] " 10.7

Number of salinometer, 1104

Barometer reading, 29.65

State of sky, Overcast

Direction of wind, N. W. ; force, [illegible]

Rain, None

Direction of surface current, N. E. : force, [illegible]

" of bottom " : force, [illegible]

Name of vessel, U. S. C. S. [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer, [illegible]

[illegible] Assistant, [illegible]

Name and position of observer, [illegible]

[illegible] Assistant [illegible]

NOTES RELATING TO STATION NO. 1

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 88 — ~~2016~~

Date. Nov. [illegible]

Time of day. [illegible] of tide. 5½ h. flood

Locality, Nansemond River

Exact position. N. E. x N. To [illegible]

Depth. 19 feet

Nature of bottom, Hard

Dredging instrument used, [illegible]

Direction of drift. N x W. 1/4 W ; distance. 1/2 mile

Temperature of air. 6° Fah. therm. No. [illegible]

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.021 temp., 10.3°

~~" at depth of fathoms.~~ "

" at bottom. 1.0214 " 10.6

Number of salinometer. 7104

Barometer reading. 29.6[illegible]

State of sky. Moderate

Direction of wind. N. W. ; force. 4

Rain. No

Direction of surface current. N. W. ; force. 1

~~" of bottom~~ " ; force.

Name of vessel. [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer, [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 88

[illegible]

1 Ennacea

[illegible]

[illegible]

Diplomoceria hybrid

1 Asaphis modiolus

2 Cineraria [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2 Litorina [illegible]

1 [illegible]

[illegible]

Dredge [illegible]

643

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 89 — 2017

Date, Nov. 15 1884

Time of day, 9 to 10 a.m. ; of tide, 2nd of ebb.

Locality, Off Yellow Pond

Exact position, Yellowing Pt. light house E x N. 3/4 E — mile out

Depth, 8 fathoms

Nature of bottom, Grey Mud

Dredging instrument used, Dredge

Direction of drift, S.W. by S. ; distance, 3/4 mile

Temperature of air, 40° — therm. No. 7399

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0237 temp., 1°

~~" at depth of fathoms,~~ "

" at bottom, 1.0234 " 1.3°

Number of salinometer, 7194

Barometer reading, 30.08

State of sky, Clear

Direction of wind, N.W. ; force, 3

Rain, No

Direction of surface current, 0 ; force, 0

~~" of bottom ; force,~~

Name of vessel, [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer, [illegible]

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO. 69.

Bottom very rocky, and dredge was hauled several times [illegible] consequence.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 90 — ~~2018~~

Date. Nov. 15-[illegible]

Time of day. [illegible] a.m. : of tide. 1½ hrs. [illegible]

Locality. East of Brenton's Reef

Exact position. [illegible] N by E. .75 miles [illegible]

Depth. [illegible]

Nature of bottom. Rock

Dredging instrument used. Dredge

Direction of drift. N. by W. ; distance. [illegible] miles

Temperature of air. 40° Fah. therm. No. 7397

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.0224 temp. 14.0° C

" at depth of fathoms. "

" at bottom. 1.0224 " 11.3° C

Number of salinometer. 7[illegible]

Barometer reading. 30.08

State of sky. [illegible]

Direction of wind. N. W. ; force.

Rain. No

Direction of surface current. E ; force. ½ knot

" of bottom " " ; force.

Name of vessel. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

[illegible]

Name and position of observer.

[illegible]

NOTES RELATING TO STATION NO. 90

[illegible]

[illegible]

643 [illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 9 — 2019

Date. [illegible] 5 [illegible]

Time of day. [illegible] of tide. 1½ [illegible]

Locality. [illegible] Bouton's Ruf [illegible]

Exact position. Bouton's Ruf [illegible]
W x N. ½ N. 1.50 miles [illegible]

Depth. [illegible]

Nature of bottom. Hard gravelly bottom

Dredging instrument used. [illegible]

Direction of drift, W. S. W.; distance, ½ mile

Temperature of air. 48° [illegible] therm. No., 7077

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.0237 temp., 10.0°

" ~~at depth of~~ fathoms. "

" at bottom. 1.0237 " 11.0°

Number of salinometer. 102

Barometer reading. 30.0

State of sky. Blue

Direction of wind, N. W.; force, 3

Rain, No

Direction of surface current, E; force, ½

" of bottom " " force,

Name of vessel. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 91

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 9 2 20

Date, [illegible]

Time of day, 9 [illegible] ; of tide, [illegible]

Locality, New Inlet's Reef,

Exact position, Upatoi Reef Dredge [illegible] 1.50 mile map

Depth, [illegible]

Nature of bottom.

Dredging instrument used, [illegible]

Direction of drift, N.W. by N. ; distance, 3/4 mile

Temperature of air, 41° ; therm. No. [illegible]

" ~~of surface water.~~ "

" ~~at depth of fathoms.~~ "

" ~~at bottom.~~ "

Density at surface, 1.0[illegible] ; temp., [illegible]

~~" at depth of fathoms,~~

" at bottom, 1.0[illegible] " [illegible]

Number of salinometer, 7[illegible]

Barometer reading, 30.09

State of sky, [illegible]

Direction of wind, N. by ; force, [illegible]

Rain, No

Direction of surface current, S.E. ; force, [illegible]

~~" of bottom " ; force,~~

Name of vessel, [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer, Lt. [illegible]

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 93 — 2021

Date, [illegible]

Time of day, 10.30 am : of tide, 2 h [illegible]

Locality, Near entrance to [illegible] on [illegible]

Exact position, [illegible] Light, S.E. 1.37 mile [illegible]

Depth, 6½ fathoms

Nature of bottom, Dredge

Dredging instrument used,

Direction of drift, S x W. : distance, ½ mile

Temperature of air, 42° Fahr. therm. No., [illegible]

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0[illegible] temp., 1[illegible]

~~" at depth of fathoms,~~ "

" at bottom, [illegible]

Number of salinometer, [illegible]

Barometer reading, 30.12

State of sky, [illegible]

Direction of wind, [illegible] : force, 5

Rain, None

Direction of surface current, [illegible] : force, [illegible]

~~" of bottom~~ " : force,

Name of vessel, [illegible]

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. 9

Fen Cowslips April 6.
Dog's Tooth
Fen [illegible] by creek.
" [illegible]
Yellow [illegible]
Fen [illegible]
" [illegible]
" [illegible]
Lesser [illegible]
" [illegible]
Celandine.
Yellow [illegible]
Young nettle [illegible]
[illegible]
[illegible]
[illegible]
Strange [illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 9 — 7022

Date, [illegible]

Time of day. 10 [illegible] : of tide. 2h 20m [illegible]

Locality. Western Passage of Massachusetts [illegible]

Exact position. Mark Rock Light [illegible]

9 x 15 — 3/4 [illegible] 50 [illegible]

Depth. [illegible]

Nature of bottom. [illegible]

Dredging instrument used. [illegible]

Direction of drift. S.E.W. : distance. 1/2 mile

Temperature of air, [illegible] therm. No. 7[illegible]

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.023 temp. [illegible]

" at depth of fathoms, "

" at bottom. 1.023 " [illegible]

Number of salinometer. 7[illegible]

Barometer reading. 30.12

State of sky. [illegible]

Direction of wind. [illegible] : force,

Rain. [illegible]

Direction of surface current. P.A.W. : force, 1 knot

" of bottom " : force,

Name of vessel. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 96

[illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 95 — 2023

Date, Nov. 15 — 95

Time of day, 10.55 ; of tide, 2h. 55m. ebb

Locality, Near Whale Rock Light

Exact position, Whale Rock Light N. E 3/4 E. — .50 mile away

Depth. 10

Nature of bottom.

Dredging instrument used. Dred. 95

Direction of drift, S.W. N.W. ; distance 3/4 mile

Temperature of air, 42° Fahr. therm. No. 7073

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp. 11.0

~~" at depth of fathoms,~~ "

" at bottom, " 11.0

Number of salinometer. 7102

Barometer reading. 30.12

State of sky.

Direction of wind, S.W. ; force. 5

Rain. No —

Direction of surface current, S.W. ; force.

~~" of bottom " ; force~~

Name of vessel, Tidal

Service to which attached, Tidal

Name and rank of commanding officer,

Name and position of observer.

NOTES RELATING TO STATION NO. 9

[illegible]

L [illegible]
Zeta
Never [illegible]
Shell of [illegible]
[illegible]

[illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 96 — [illegible]

Date, [illegible]

Time of day. [illegible] : of tide. [illegible]

Locality. [illegible]

Exact position, [illegible]

N. E x E 1/2 E — 1 mile nearly.

Depth. [illegible]

Nature of bottom. [illegible]

Dredging instrument used. [illegible]

Direction of drift. [illegible] ; distance. 3/4 mile

Temperature of air. [illegible] therm. No. [illegible]

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. [illegible] temp. [illegible]

" at depth of fathoms, "

" at bottom. [illegible] " [illegible]

Number of salinometer, [illegible]

Barometer reading. [illegible]

State of sky, [illegible]

Direction of wind, [illegible] ; force. [illegible]

Rain, no

Direction of surface current. [illegible] : force. [illegible]

" of bottom " : force.

Name of vessel, [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 96

[illegible]

Est from [illegible]

[illegible]

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. [illegible]

Date, [illegible]

Time of day, [illegible] : of tide, [illegible]

Locality, [illegible]

Exact position, [illegible] Light

N.E ½ E — 1.75 [illegible]

Depth, [illegible]

Nature of bottom, [illegible]

Dredging instrument used, [illegible]

Direction of drift, [illegible] ; distance, ½ mile

Temperature of air, [illegible] therm. No., [illegible]

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, [illegible] temp., [illegible]

~~" at depth of fathoms,~~ "

" at bottom, [illegible] " [illegible]

Number of salinometer, [illegible]

Barometer reading, [illegible]

State of sky, [illegible]

Direction of wind, [illegible] ; force, [illegible]

Rain, [illegible]

Direction of surface current, [illegible] ; force, [illegible]

~~" of bottom "~~ ; force,

Name of vessel, [illegible]

Service to which attached, [illegible]

Name and rank of commanding officer, [illegible]

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO. 17

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 78 — ~~2026~~

Date. [illegible]

Time of day. [illegible] : of tide. [illegible]

Locality. Off Pt. Judith [illegible]

Exact position. Pt. Judith Light [illegible] 3.27 miles [illegible]

Depth. [illegible]

Nature of bottom. [illegible]

Dredging instrument used. [illegible]

Direction of drift. [illegible] : distance. [illegible]

Temperature of air, [illegible] therm. No., [illegible]

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.023 temp., [illegible]

~~" at depth of fathoms~~ "

" at bottom. 1.023 " [illegible]

Number of salinometer. [illegible]

Barometer reading. [illegible]

State of sky. [illegible]

Direction of wind. [illegible] : force. [illegible]

Rain. [illegible]

Direction of surface current. [illegible] : force. [illegible]

~~" of bottom~~ " : force.

Name of vessel. [illegible]

Service to which attached. [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer. [illegible]

NOTES RELATING TO STATION NO. 98

1 Sorbus [illegible]
1 [illegible]
1 [illegible]
1 [illegible]
1 [illegible]
Dryopteris
[illegible]
1 [illegible]
[illegible]
[illegible]
1 Purpura
1 [illegible] [illegible]
Little [illegible]
1 ~~Cypras [illegible] [illegible]~~
Nasca river (?)

6027

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 99 — ~~2027~~

Date, Mar. 15-98.

Time of day, 11.45 ; of tide, 3 3/4 hours ebb

Locality, Off Pt. Judith Neck

Exact position, Pt. Judith Light S. W. 1/2 W. 2.75 miles nearly

Depth, 10 1/2 fathoms

Nature of bottom, Hard

Dredging instrument used, Jas. Frame [illegible]

Direction of drift, S. W. ; distance, 1/4 mile

Temperature of air, 45° Fah. therm. No., 7377

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.6° C

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 12.5° C

Number of salinometer, 7102

Barometer reading, 30.12

State of sky, Clear

Direction of wind, N. W. ; force, 5

Rain, No

Direction of surface current, S. S. W. ; force, 1/2 knot

" of bottom " ; force,

Name of vessel, U. S. F. C. Fish Hawk

Service to which attached, F. C. Commission

Name and rank of commanding officer, Lt. Commr. R. [illegible]

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO. 99

Few small [illegible]

7 [illegible]

1 [illegible]

[illegible]

" [illegible]

7 Asterle Castaneea

few [illegible] no. by E. [illegible]

~~[illegible]~~ = [illegible]

8 small white [illegible]

1 [illegible]

1 [illegible]

1 [illegible]

[illegible] Delphinium [illegible] probably Hydrocotyle [illegible]

L. [illegible] Lacuna Vinetorum [illegible] [illegible]

100

Inv. 6028

100

Lorgia b'ss
Trotter
7 per [illegible]
Imp. 45

Ben. [illegible] 1002 Imp. 115
1 letter 1002 " 1405

1 [illegible] 30.08

3 [illegible]
8 [illegible]
1 [illegible]
4 1 [illegible]
1 [illegible]
[illegible]
2. [illegible]
2. [illegible]